



UTILITIES CO.

A Division of MDU Resources Group, Inc.

400 North Fourth Street
Bismarck, ND 58501
(701) 222-7900

December 3, 2015

Executive Secretary
North Dakota Public Service Commission
State Capitol Building
Bismarck, ND 58505-0480

Re: Application for Approval of Gas Meter
Testing Program Rate 105 - Supplemental
Information
Case No. PU-13-585

Montana-Dakota Utilities Co. (Montana-Dakota), a Division of MDU Resources Group, Inc., herewith supplements the information previously provided in the above referenced case relating to changes requested to its gas meter testing program.

On July 9, 2013 Montana-Dakota Utilities Co. (Montana-Dakota) filed with the North Dakota Public Service Commission a proposed Gas Meter Testing Program Rate 105 tariff. The proposed new tariff outlines the protocol Montana-Dakota will follow in complying with Sections 69-09-01-14 and 69-09-01-16 of the North Dakota Century Code applicable to the testing, and subsequent report, of gas meters. In parallel with the proposed tariff, modifications were also being requested to the Company's current gas meter testing program, effective May 1, 1973 in Case No. I-5083.

Montana-Dakota was requested by Commission Staff to provide the following additional information in support of its request to change its gas meter testing program.

- Information showing the quality of meters is improving and a time lapse of ten years is justified.
- The test results of the AC-630 meter – the type of meter the Company is requesting to be moved from its current classification of periodic to the Company's random test program.
- File the gas meter test results for the April 2012 through March 2014 test periods.

Montana-Dakota provides the following information in response to the requests noted above:

- A summary of the Montana-Dakota's Gas Meter Test Results Failures for Meter Test Years 2009 – 2013 is provided in Attachment A. As shown in Attachment A, those limited groups that have experienced lot failures in the past five years are typically the groups that have been installed ten or more years.
- The combined test results by Meter Lot Type for meter installations in the last ten years are provided in Attachment B. As shown in Attachment B, all meter lots

combined defect rate falls within the allowable percent rate used to determine meter group's pass or fail.

- Test result detail for AC-630 meters is provided in Attachment C. As shown in Attachment C, the average accuracy of the AC-630 meters tested was 100.75%.
- Montana-Dakota filed its gas meter test results for the April 2012 through March 2014 test period on July 25, 2014 which has been designated as Case No. PU-14-657. The Company also filed its gas meter test results for the April 2014 through March 2015 test period on July 2, 2015 which has been designated as Case No. PU-15-473.

Montana-Dakota is currently working to eliminate the oldest meter groups from the meter population, beginning with the retirement of all 1950s vintage meters for meter groups 415, AS02, and ER02 which equates to 54 meters Company-wide, of which 33 are in North Dakota. All 54 meters will be removed by year end 2015.

Montana-Dakota continues to support the benefits achieved through the changes proposed in this pending case. The changes foster the alignment of all parties in meeting the requirements for the testing of gas meters under the North Dakota Century Code.

The key elements of the revised plan include:

- The random meter testing will be conducted on a company wide basis and will include meters rated up to and including 650 cubic feet per hour. The time between testing will be extended from eight years to 10 years.
- The periodic meter testing will remain the same, with the exception of the meters rated between 620 CFH and 650 CFH that have been moved to the random testing program.

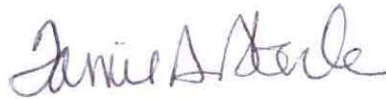
The identified benefits of the proposed changes:

- A single test program provides uniformity throughout the Company's service territory in the testing and analyzing of meter data as well as the shared knowledge of meter-related issues.
- A larger meter population from which to select meters provides Montana-Dakota with a greater statistical base for which to determine meter accuracy.
- The increase in length of time from initial installation to inclusion of meter(s) in the test program to ten years takes into consideration that historically the Company has not observed meter errors within the first ten years of installation (as demonstrated in Attachment B).
- The increase to ten years also serves to reduce customer frustration with meter exchanges as part of the random test program. The stop and start of gas service usually involves the Company making an appointment with the customer and then a Company technician entering the home to relight the affected appliances.
- Montana-Dakota has successfully operated a single Company-wide electric meter test program for over fifteen years.

Montana-Dakota personnel are available for further discussion.

Please acknowledge receipt by stamping or initialing the duplicate copy of this letter attached hereto and returning the same in the enclosed self-addressed, stamped envelope.

Sincerely,



Tamie A. Aberle
Director of Regulatory Affairs

Attachments

Montana-Dakota Utilities Co.
Gas Utility - North Dakota
Summary of Gas Meter Test Results' Failures
Meter Test Years 2009 through 2013

Meter Lot	Install/ Group Year	Report Date	Timeframe	% Defective		% Allowable	Lot Size	Sample Size
AL425	Group 91-95	12/12/2008	4/1/06 - 3/31/08	35.79	1/	30.50	42	7
ER02	Group 81-85	12/12/2008	4/1/06 - 3/31/08	31.46	1/	23.58	581	30
ER03	Group 81-85	12/12/2008	4/1/06 - 3/31/08	27.87	1/	22.86	2,000	40
AL425	Group 91-95	4/16/2009		13.22		33.99	26	6
ER02	Group 81-85	4/16/2009		28.39	2/	23.97	393	26
ER02	Group 81-85	7/16/2010	4/1/09 - 3/31/10	28.39	2/	23.97	393	26
ER03	Group 81-85	7/16/2010	4/1/09 - 3/31/10		3/			
S400	Group 97-01	7/16/2010	4/1/09 - 3/31/10	50.00	1/	36.90	23	4
S400A	Group 92-96	7/16/2010	4/1/09 - 3/31/10	49.23	1/	33.99	30	5
AS02	Group 76-80	8/23/2011	4/1/10 - 3/31/11	28.13	1/	25.61	114	15
ER02	Group 86-90	8/23/2011	4/1/10 - 3/31/11	29.94	1/	23.58	766	30
ER03	Group 86-90	8/23/2011	4/1/10 - 3/31/11	25.48	1/	22.86	2,268	40
ER03	Group 91-95	8/23/2011	4/1/10 - 3/31/11	23.19	1/	22.00	4,390	50
S400A	Group 92-96	8/23/2011	4/1/10 - 3/31/11	>50.00	2/	33.99	23	5
S400A	Group 97-01	8/23/2011	4/1/10 - 3/31/11	32.43	1/	30.50	60	7
AS02	Group 91-95	5/20/2013	4/1/11 - 3/31/12	25.69	1/	22.91	1,228	35
ER02	Group 76-80	5/20/2013	4/1/11 - 3/31/12	38.93	1/	30.50	53	7
ER03	Group 86-90	5/20/2013	4/1/11 - 3/31/12	22.99	4/	22.86	1,841	40
S400A	Group 97-01	5/20/2013	4/1/11 - 3/31/12	41.41	2/	30.50	49	7

1/ First year failure. Will continue to monitor meter lot/group.

2/ Meter lot/group failed. Meters are being retired.

3/ Meter lot/group removed and retired from meter population.

4/ Sub group of meters being removed. Will continue to monitor remaining meter population.

MONTANA - DAKOTA UTILITIES CO. ND COMBINED TEST YEAR 2009-2013 RANDOM SAMPLE TEST RESULTS						
Lot Type	Size (in CIS)	Install Year	Sample Size	Combined Defect [%]	Year 2013 Defect [%]	Allowable [%]
415	415	Last 10 Years	225	10.87	12.52	23.58
AC-250	AC250	Last 10 Years	489	1.55	0.13	40.47
AL-425	AL425	Last 10 Years	171	1.43	3.32	40.47
AS02	AL175, AL225 & AL250	Last 10 Years	216	1.84	15.30	33.99
ER01	175	Last 10 Years	79	0.81	0.00	33.99
ER02	250	Last 10 Years	211	4.69	0.00	36.90
ER03	R200 & R275	Last 10 Years	451	2.84	1.1	23.97
NL-250	NL-250	Last 10 Years	134	6.41	4.95	30.50
S250	S250	Last 10 Years	228	0.03	0.05	40.47
SL250	SL250	Last 10 Years	179	0.07	0.00	27.57
S400	S400	Last 10 Years	50	3.14	0.00	40.47
S400A	S400A	Last 10 Years	81	12.43	0.14	36.90

Montana-Dakota Utilities Co.
Gas Utility
Results of Gas Meter Testing for AC-630 Meter Type

Meter	Serial	ERT	Read	Open As found	Check As Found	Open As Left	Check As Left	Meter Type	Tester ID	Dated	Temp	Weighted Accuracy
1	836845	01B769587	1254416286	11.7	98.8	99.2	98.8	AC-630	17339	4/14/2010	72.9	98.88
2	836723	B457954	1251952253	4967	98.9	99.3	98.9	AC-630	2268	3/3/2010	74.7	98.98
3	836727	B457958	1251920540	942	99.3	100.3	99.3	AC-630	2268	3/9/2010	76.0	99.50
4	836696	01B457927	1254666430	98.5	99.2	101.1	99.2	AC-630	3674	5/27/2010	68.8	99.58
5	836744	B494966	54664236	7264	99.5	100.1	99.5	AC-630	3674	3/26/2009	74.3	99.62
6	836733	B494955	54478565	2566	99.5	100.4	99.5	AC-630	3674	3/26/2009	76.0	99.68
7	836711	B457942	1251920884	6366	99.7	100.1	99.7	AC-630	17339	3/24/2010	72.6	99.78
8	836713	B457944	1251936291	1896	99.6	100.5	99.6	AC-630	2268	3/9/2010	77.2	99.78
9	836752	B494974	54364408	9914	99.7	100.3	99.7	AC-630	3674	3/26/2009	75.9	99.82
10	822015	A611849	54300756	8167	99.7	100.4	99.7	AC-630	3674	3/5/2009	74.5	99.84
11	822018	A611852	54698142	3755	99.6	100.9	99.6	AC-630	3674	3/26/2009	77.3	99.86
12	836861	B769603	1254370520	736	99.9	100.1	99.9	AC-630	3674	2/22/2010	72.9	99.94
13	822022	A611856	1254697041	3704	99.8	100.7	99.8	AC-630	2268	4/1/2010	74.3	99.98
14	822025	A611859	51935561	17	99.9	100.7	99.9	AC-630	3674	3/26/2009	77.2	100.06
15	819138	A017124	51963547	5724	99.9	100.9	99.9	AC-630	17339	4/10/2009	73.3	100.10
16	836855	01B769597	1254389287	723.6	100.1	100.2	100.1	AC-630	3674	2/22/2010	75.4	100.12
17	836842	01B769584	1254380933	348.6	100.0	100.6	100.0	AC-630	3674	12/30/2009	74.1	100.12
18	836856	01B769598	1254389860	611	100.0	100.7	100.0	AC-630	3674	4/14/2010	71.0	100.14
19	819130	A017116	51935927	5967	100.1	100.7	100.1	AC-630	3674	3/4/2009	74.4	100.22
20	836772	01B494994	1254516301	400.3	100.1	100.7	100.1	AC-630	3674	5/27/2010	69.2	100.22
21	851749	03D35000	1254364868	369.3	100.2	100.3	100.2	AC-630	3674	2/22/2010	75.1	100.22
22	836776	01B494998	1254693805	207.1	100.2	100.4	100.2	AC-630	3674	2/10/2010	75.4	100.24
23	847824	B525240	1251927567	4582	100.2	100.4	100.2	AC-630	17339	4/2/2010	75.1	100.24
24	869083	05E867270	1254359416	460.3	100.2	100.4	100.2	AC-630	3674	1/3/2011	73.4	100.24
25	822017	A611851	54303037	7988	100.2	100.6	100.2	AC-630	17339	4/10/2009	73.2	100.28
26	822063	A611897	54689477	342	100.3	100.2	100.3	AC-630	3674	3/31/2009	74.9	100.28
27	819112	99A17098	1254320816	862.2	100.1	101.1	100.1	AC-630	17339	3/25/2010	71.9	100.30
28	836770	B494992	1254420590	9050	100.2	100.7	100.2	AC-630	3674	2/5/2010	75.5	100.30
29	836773	01B494995	1254663348	383.3	100.2	100.7	100.2	AC-630	3674	2/10/2010	75.1	100.30
30	822002	A599531	1251907404	8424	100.3	100.4	100.3	AC-630	17339	6/22/2009	67.0	100.32
31	822020	00A611854	1254663646	463.3	100.2	100.8	100.2	AC-630	2268	11/19/2009	58.2	100.32
32	836746	B494968	54432655	6983	100.2	100.8	100.2	AC-630	3674	3/26/2009	76.0	100.32
33	836844	B769586	0	525	100.2	100.8	100.2	AC-630	17339	6/16/2009	71.3	100.32
34	836848	01B769590	1254361910	911.8	100.2	100.8	100.2	AC-630	3674	2/22/2010	72.4	100.32
35	819149	99A17135	1200000000	687.4	100.4	100.1	100.4	AC-630	3674	8/17/2010	74.2	100.34
36	822078	A611912	54307543	6405	100.3	100.5	100.3	AC-630	17339	4/10/2009	73.4	100.34
37	836714	B457945	1251920939	8224	100.2	100.9	100.2	AC-630	2268	3/3/2010	73.3	100.34
38	845365	02C118913	1254327910	423.7	100.2	100.9	100.2	AC-630	17339	12/6/2010	76.3	100.34
39	819124	A017110	1251927583	6007	100.3	100.6	100.3	AC-630	17339	4/2/2010	74.8	100.36
40	836732	B457963	1251920924	9341	100.2	101.0	100.2	AC-630	2268	3/3/2010	74.1	100.36
41	821976	A599505	54303175	1809	100.4	100.3	100.4	AC-630	3674	3/5/2009	74.3	100.38
42	822024	A611858	54328184	984	100.4	100.4	100.4	AC-630	3674	3/26/2009	76.2	100.40
43	836709	B457940	1251924341	9460	100.3	100.8	100.3	AC-630	2268	3/3/2010	74.2	100.40
44	822007	00A599536	1251935602	311.3	100.4	100.5	100.4	AC-630	17339	6/18/2009	70.6	100.42
45	822083	A611917	54426708	4977	100.4	100.5	100.4	AC-630	3674	3/31/2009	75.8	100.42
46	845389	C118937	1254660876	6490	100.4	100.5	100.4	AC-630	3674	2/5/2010	75.3	100.42
47	914640	L826526	1232630188	0	100.5	100.1	100.5	AC-630	17339	4/7/2010	72.8	100.42
48	836735	01B494957	1254521286	842.2	100.4	100.6	100.4	AC-630	2268	11/19/2009	70.8	100.44
49	822049	00A611883	1254370336	670.4	100.5	100.3	100.5	AC-630	3674	12/30/2009	74.2	100.46
50	822074	A611908	1251920112	7413	100.4	100.7	100.4	AC-630	17339	6/22/2009	68.1	100.46

Montana-Dakota Utilities Co.
Gas Utility
Results of Gas Meter Testing for AC-630 Meter Type

Meter	Serial	ERT	Read	Open As found	Check As Found	Open As Left	Check As Left	Meter Type	Tester ID	Dated	Temp	Weighted Accuracy
51	836858	01B769600	1254367887	358.7	100.4	100.7	100.4	AC-630	3674	12/30/2009	74.9	100.46
52	851746	03D34997	1254389280	289.7	100.4	100.8	100.4	AC-630	3674	4/13/2010	61.6	100.48
53	821998	00A599527	1254310769	107.1	100.4	100.9	100.4	AC-630	3674	6/23/2009	71.4	100.50
54	836806	B605911	1251919790	3421	100.4	100.9	100.4	AC-630	17339	4/2/2010	74.5	100.50
55	819160	A017146	54300079	4516	100.5	100.6	100.5	AC-630	3674	3/5/2009	73.2	100.52
56	821991	A599520	54307388	856	100.5	100.6	100.5	AC-630	3674	3/5/2009	75.0	100.52
57	822016	A611850	0	370	100.4	101.0	100.4	AC-630	3674	3/5/2009	73.0	100.52
58	845378	02C118926	1254382342	792.6	100.5	100.6	100.5	AC-630	3674	1/3/2011	79.3	100.52
59	836761	B494983	1251936353	3231	100.5	100.7	100.5	AC-630	2268	3/3/2010	74.4	100.54
60	836809	B605914	1251919541	2467	100.5	100.7	100.5	AC-630	17339	4/2/2010	74.6	100.54
61	851742	03D34993	1254414335	45.6	100.5	100.7	100.5	AC-630	17339	6/18/2009	66.9	100.54
62	819129	A017115	54310737	2192	100.4	101.1	100.4	AC-630	3674	3/5/2009	73.3	100.54
63	836691	B457922	1254482893	46	100.4	101.1	100.4	AC-630	3674	2/5/2010	75.3	100.54
64	822065	A611899	54517323	5424	100.6	100.4	100.6	AC-630	3674	3/26/2009	74.7	100.56
65	851748	03D34999	1254399946	11.2	100.5	100.8	100.5	AC-630	17339	6/18/2009	71.4	100.56
66	836743	01B494965	1254420935	421.4	100.5	100.9	100.5	AC-630	3674	10/19/2009	71.7	100.58
67	851818	03D301571	1200000000	571.8	100.6	100.5	100.6	AC-630	3674	8/17/2010	72.2	100.58
68	836851	01B769593	1254339858	724	100.4	101.3	100.4	AC-630	3674	2/22/2010	72.8	100.58
69	822081	00A611915	1254462284	173.2	100.5	101.0	100.5	AC-630	2268	11/19/2009	60.8	100.60
70	836853	01B769595	1254364465	912.2	100.6	100.6	100.6	AC-630	3674	2/22/2010	72.7	100.60
71	819126	A017112	1254698832	246	100.4	101.5	100.4	AC-630	2268	4/1/2010	74.1	100.62
72	822060	00A611894	1200000000	938.9	100.5	101.1	100.5	AC-630	17339	7/1/2010	69.3	100.62
73	836695	01B457926	1230252560	866.6	100.5	101.1	100.5	AC-630	3674	12/6/2010	73.5	100.62
74	845424	02C318981	1254404706	546.4	100.7	100.3	100.7	AC-630	17339	6/18/2009	68.0	100.62
75	851739	D034990	1254387765	4958	100.5	101.1	100.5	AC-630	3674	2/22/2010	75.5	100.62
76	836697	B457928	54426261	9517	100.6	100.8	100.6	AC-630	3674	3/31/2009	74.8	100.64
77	836745	B494967	54493115	7403	100.6	100.8	100.6	AC-630	3674	3/26/2009	76.5	100.64
78	836854	01B769596	1254387541	870.1	100.4	101.6	100.4	AC-630	3674	5/27/2010	69.0	100.64
79	851736	03D34987	1254387693	74.8	100.7	100.4	100.7	AC-630	3674	2/22/2010	75.0	100.64
80	845384	02C118932	1254516242	889.6	100.7	100.5	100.7	AC-630	3674	5/27/2010	66.7	100.66
81	822062	A611896	54421413	6378	100.6	101.0	100.6	AC-630	3674	3/26/2009	75.6	100.68
82	836715	01B457946	1251907893	108.8	100.5	101.4	100.5	AC-630	17339	12/6/2010	76.5	100.68
83	836737	01B494959	1254662381	265.1	100.6	101.0	100.6	AC-630	3674	5/27/2010	68.9	100.68
84	836836	01B769578	1254356053	448.5	100.6	101.0	100.6	AC-630	3674	2/22/2010	73.5	100.68
85	845423	02C318980	1254339754	248.3	100.8	100.2	100.8	AC-630	3674	2/22/2010	74.8	100.68
86	869079	05E867266	1254397933	468.3	100.6	101.0	100.6	AC-630	3674	1/3/2011	72.8	100.68
87	821973	A599502	54304466	6771	100.7	100.7	100.7	AC-630	17339	4/10/2009	73.4	100.70
88	822064	A611898	54656063	343	100.7	100.7	100.7	AC-630	3674	3/26/2009	75.3	100.70
89	851733	03D34984	1254329078	31.1	100.6	101.1	100.6	AC-630	3674	2/22/2010	73.6	100.70
90	851740	03D34991	1254373838	36.6	100.6	101.1	100.6	AC-630	17339	4/14/2010	73.8	100.70
91	869084	05F116125	1254361915	812.5	100.5	101.5	100.5	AC-630	3674	1/3/2011	73.0	100.70
92	836769	01B494991	1254661938	9194	100.6	101.2	100.6	AC-630	3674	2/10/2010	75.4	100.72
93	836800	B605905	1251949676	4177	100.6	101.2	100.6	AC-630	17339	4/2/2010	75.0	100.72
94	819157	99A17143	1254389978	838.8	100.6	101.3	100.6	AC-630	3674	10/27/2010	75.9	100.74
95	836767	01B494989	1254516939	526.5	100.7	100.9	100.7	AC-630	3674	5/27/2010	67.9	100.74
96	836843	01B769585	1254328947	10.3	100.7	100.9	100.7	AC-630	3674	2/22/2010	75.7	100.74
97	845407	02C318964	1254397829	65.1	100.7	100.9	100.7	AC-630	3674	5/5/2010	70.3	100.74
98	822080	A611914	54660887	4037	100.8	100.6	100.8	AC-630	3674	3/26/2009	76.4	100.76
99	822058	A611892	54426305	5938	100.7	101.1	100.7	AC-630	3674	3/26/2009	75.5	100.78
100	822069	A611903	54692769	372	100.9	100.3	100.9	AC-630	3674	3/31/2009	74.8	100.78

Montana-Dakota Utilities Co.
Gas Utility
Results of Gas Meter Testing for AC-630 Meter Type

Meter	Serial	ERT	Read	Open As found	Check As Found	Open As Left	Check As Left	Meter Type	Tester ID	Dated	Temp	Weighted Accuracy
101	836775	B494997	54640694	2552	100.7	101.1	100.7	AC-630	3674	3/26/2009	75.3	100.78
102	851735	03D34986	1254366800	532.5	100.8	100.7	100.8	AC-630	3674	1/3/2011	72.1	100.78
103	845404	02C318961	1254375103	328.9	100.8	100.8	100.8	AC-630	3674	1/3/2011	73.7	100.80
104	819139	99A17125	1251963052	263.1	100.8	101.0	100.8	AC-630	17339	3/23/2010	75.1	100.84
105	819140	A017126	51962502	57	100.8	101.0	100.8	AC-630	17339	4/10/2009	72.9	100.84
106	822079	00A611913	1254432162	166.8	100.9	100.6	100.9	AC-630	3674	11/3/2009	73.2	100.84
107	836734	01B494956	1254655400	48.4	100.8	101.0	100.8	AC-630	3674	5/27/2010	66.5	100.84
108	836739	01B494961	1254493554	282.6	100.7	101.4	100.7	AC-630	3674	5/27/2010	66.4	100.84
109	836834	B769576	1251926206	6858	100.7	101.4	100.7	AC-630	17339	3/24/2010	72.7	100.84
110	836837	01B769579	1254367363	584.8	100.7	101.4	100.7	AC-630	3674	7/2/2010	67.8	100.84
111	836864	01B769606	1254489047	494.3	100.8	101.0	100.8	AC-630	3674	2/22/2010	72.4	100.84
112	851842	03D594476	1254397883	23.1	100.7	101.4	100.7	AC-630	3674	1/3/2011	78.3	100.84
113	819161	A017147	54492992	9225	100.8	101.1	100.8	AC-630	3674	3/5/2009	72.7	100.86
114	821993	A599522	54304477	3780	100.8	101.1	100.8	AC-630	3674	3/4/2009	74.0	100.86
115	836867	01B769609	1254370740	943.8	100.9	100.7	100.9	AC-630	3674	5/27/2010	66.2	100.86
116	822073	00A611907	1254473437	717.5	100.8	101.2	100.8	AC-630	3674	10/27/2010	76.1	100.88
117	903754	08K443012	1254627069	10	100.8	101.2	100.8	AC-630	17339	5/5/2010	74.4	100.88
118	821975	A599504	54312403	4416	101.0	100.6	101.0	AC-630	17339	4/10/2009	73.4	100.92
119	836860	01B769602	1254414144	695.2	100.8	101.4	100.8	AC-630	3674	1/3/2011	82.8	100.92
120	836865	01B769607	1254356039	724.6	100.9	101.2	100.9	AC-630	3674	7/2/2010	68.5	100.96
121	822084	00A611918	1254458608	563.3	101.0	100.9	101.0	AC-630	2268	11/19/2009	71.3	100.98
122	836779	01B605884	1254370282	661.7	100.9	101.3	100.9	AC-630	3674	10/5/2009	73.0	100.98
123	851846	03D594480	1254374722	119	100.8	101.8	100.8	AC-630	3674	1/3/2011	79.8	101.00
124	821972	A599501	54315109	278	101.1	100.7	101.1	AC-630	3674	3/5/2009	73.8	101.02
125	821972	A599501	54315109	278	101.1	100.7	100.0	AC-630	3674	3/5/2009	74.9	101.02
126	836859	01B769601	1254375098	812.8	101.0	101.1	101.0	AC-630	3674	1/3/2011	81.6	101.02
127	845422	02C318979	1254326942	718.7	101.0	101.1	101.0	AC-630	3674	2/22/2010	75.9	101.02
128	822082	00A611916	1254521213	499.5	101.0	101.2	101.0	AC-630	3674	11/3/2009	74.6	101.04
129	836803	B605908	1251952565	414	101.0	101.3	101.0	AC-630	2268	3/9/2010	75.7	101.06
130	851841	03D594475	1254370021	669.8	101.0	101.3	101.0	AC-630	3674	1/3/2011	73.0	101.06
131	836710	B457941	1251924322	8125	100.9	101.9	100.9	AC-630	2268	3/3/2010	74.2	101.10
132	836846	01B769588	1254339838	266.5	101.1	101.1	101.1	AC-630	17339	7/2/2010	69.0	101.10
133	869068	05E867255	1254386470	107.8	101.0	101.5	101.0	AC-630	3674	1/3/2011	79.3	101.10
134	821969	A599498	51934525	3628	101.1	101.2	101.1	AC-630	17339	4/10/2009	73.6	101.12
135	836830	B769572	1251920113	6209	101.1	101.2	101.1	AC-630	2268	3/3/2010	73.5	101.12
136	822012	00A599541	1200000000	311.9	101.2	100.8	101.2	AC-630	3674	12/30/2009	75.1	101.12
137	822059	A611893	54519919	1023	101.3	100.6	101.3	AC-630	3674	3/26/2009	74.1	101.16
138	845421	02C318978	1254356037	558.6	101.1	101.4	101.1	AC-630	3674	7/2/2010	68.3	101.16
139	903747	08K443005	1254626695	0	101.1	101.4	101.1	AC-630	3674	2/22/2010	75.5	101.16
140	822092	00A611926	1254486019	712.6	101.1	101.5	101.1	AC-630	17339	7/20/2010	72.4	101.18
141	819127	A017113	54334996	4948	101.1	101.6	101.1	AC-630	3674	3/26/2009	76.0	101.20
142	822004	A599533	51998475	7933	101.3	100.8	101.3	AC-630	3674	3/5/2009	74.0	101.20
143	851852	03D594486	1254369910	289.4	101.1	101.6	101.1	AC-630	3674	12/6/2010	73.4	101.20
144	819113	99A17099	1200000000	560.4	101.2	101.6	101.2	AC-630	3674	12/30/2009	72.8	101.28
145	851844	03D594478	1251918433	465	101.3	101.2	101.3	AC-630	3674	1/3/2011	73.7	101.28
146	822032	00A611866	1254385469	570	101.4	100.9	101.4	AC-630	17339	7/20/2010	72.4	101.30
147	845419	C318976	1254368185	5096	101.2	101.7	101.2	AC-630	3674	2/22/2010	75.4	101.30
148	851738	03D34989	1254362523	855.7	101.3	101.3	101.3	AC-630	17339	5/5/2010	72.9	101.30
149	869080	05E867267	1254392285	660.6	101.2	101.7	101.2	AC-630	3674	1/3/2011	79.1	101.30
150	845405	C318962	54415858	1018	101.3	101.6	101.3	AC-630	3674	3/26/2009	75.3	101.36

Montana-Dakota Utilities Co.
Gas Utility
Results of Gas Meter Testing for AC-630 Meter Type

Meter	Serial	ERT	Read	Open As found	Check As Found	Open As Left	Check As Left	Meter Type	Tester ID	Dated	Temp	Weighted Accuracy
151	851853	03D594487	1254493125	596	101.3	101.7	101.3	AC-630	3674	1/3/2011	81.2	101.38
152	851741	03D34992	1254493613	308.1	101.4	101.3	101.4	AC-630	17339	6/16/2009	70.7	101.38
153	851881	03D594515	1254337196	1.3	101.4	101.4	101.4	AC-630	3674	8/17/2010	74.1	101.40
154	819153	99A17139	1254480134	914.4	101.3	101.9	101.3	AC-630	3674	10/27/2010	82.2	101.42
155	836832	B769574	1251963741	1807	101.3	101.9	101.3	AC-630	3674	12/22/2010	73.8	101.42
156	845413	02C318970	1254417689	227.9	101.4	101.5	101.4	AC-630	3674	2/22/2010	73.1	101.42
157	845420	02C318977	1254391316	865.6	101.5	101.2	101.5	AC-630	3674	4/14/2010	70.7	101.44
158	819132	A017118	54314830	1071	101.4	101.7	101.4	AC-630	3674	3/4/2009	74.6	101.46
159	836810	01B605915	1254493504	999.1	101.4	101.7	101.4	AC-630	3674	10/20/2009	75.8	101.46
160	836904	B605909	1251952600	8344	101.4	101.7	101.4	AC-630	17339	3/9/2010	75.7	101.46
161	845408	02C318965	1251934224	284.3	101.5	101.3	101.5	AC-630	3674	1/3/2011	73.2	101.46
162	845403	02C318960	1254417424	563.1	101.5	101.4	101.5	AC-630	17339	6/16/2009	66.8	101.48
163	845414	C318971	1254370937	5074	101.4	101.8	101.4	AC-630	3674	2/22/2010	75.2	101.48
164	869074	05E867261	1254415519	924.6	101.6	101.5	101.6	AC-630	17339	4/14/2010	72.8	101.58
165	851882	03D594516	1254337213	182	101.5	102.0	101.5	AC-630	3674	8/17/2010	74.3	101.60
166	851848	03D594482	1254397853	672.2	101.6	101.7	101.6	AC-630	3674	1/3/2011	78.3	101.62
167	851845	03D594479	1254504462	836	101.7	101.3	101.7	AC-630	3674	1/3/2011	72.8	101.62
168	845402	02C318959	1254391540	203.6	101.6	102.1	101.6	AC-630	3674	7/2/2010	67.9	101.70
169	822013	00A599542	1200000000	563.7	101.7	101.8	101.7	AC-630	3674	12/30/2009	75.2	101.72
170	845418	02C318975	1254374996	115.9	101.9	101.5	101.9	AC-630	17339	7/2/2010	69.3	101.82
171	851855	03D594489	1254397544	387.1	101.8	102.0	101.8	AC-630	3674	1/3/2011	81.9	101.84
172	851856	03D594490	1254364118	79.1	101.9	102.4	101.9	AC-630	3674	1/3/2011	72.3	102.00
173	851849	03D594483	1254415966	396.8	101.9	102.7	101.9	AC-630	3674	1/3/2011	79.7	102.06
174	851850	03D594484	1254374572	779.4	102.6	102.1	102.6	AC-630	3674	1/3/2011	78.5	102.50
175	859615	E072642	1251909279	5662	103.2	101.0	103.2	AC-630	2268	3/3/2010	74.6	102.76
Average						100.7	101.0					100.75